What is claimed is:

1. A method of preparing a monomer selected from the group consisting essentially of AB_2 and B_2A monomers, the method comprising reacting, in an inert atmosphere, tris-(2-aminoethyl)amine with a material selected from the group consisting essentially of

(i) alkyl acrylates,
(ii) aryl acrylates,
(iii) alkyl methacrylates,
(iv) aryl methacrylates,
(v) succinic anhydride,
(vi) glutaric anhydride,
(vii) 3- propriolactone,
(viii) cyclic alkyl anhydrides,
(ix) cyclic aryl anhydrides,
(x) amine reactive cyclic anhydrides selected from the group consisting of
    (a) beta-sultones, and
    (b) ethylene sulfate,
(xi) dialkyl itaconates,
(xii) itaconic acids,

in a ratio of from 1:1 to1:3, at room temperature in the range of about 0^0C to about 200^0C for a period of time in the range of about 5 minutes to about 120 minutes:
thereafter, adding solvent to the reaction mass and heating the mixture at less than 200^0C for up to 24 hours.

2. A method for preparing hyperbranched, PAMAM polymers, the method comprising (I) preparing an AB_2 or B2A monomer, comprising reacting, in an inert atmosphere, tris(2-aminoethyl)amine with a material selected from the group consisting essentially of

(i) alkyl acrylates,
(ii) aryl acrylates,
(iii) alkyl methacrylates,
(iv) aryl methacrylates,
(v) succinic anhydride,
(vi) glutaric anhydride,
(vii) 3- propriolactone,
(viii) cyclic alkyl anhydrides,
(vix) cyclic aryl anhydrides,
(x) amine reactive cyclic anhydrides selected from the group consisting of
(a) beta-sultones, and
(b) ethylene sulfate,
(xi) dialkyl itaconates,
(xii)itaconic acids,

in a ratio of from 1:1 to1:3, at room temperature in the range of about 0^0C to about 200^0C for a period of time in the range of about 5 minutes to about 120 minutes:
thereafter, adding solvent to the reaction mass and heating the mixture at less than 200^0C for up to 24 hours;

thereafter, adding one mole equivalent of tris(2-aminoethyl)amine per total ester or a slight excess in the reaction mass and heating at a temperature in the range of 4^0C to about 200^0C for a period of time ranging from about 1 hour to about 30 hours

3. A method of preparing hyperbranched, PAMAM polymers the method comprising reacting the 1,7- dihydrosulfate salt of diethylenetriamine, in an inert atmosphere, with a material selected from the group consisting essentially of

(i) alkyl acrylates,
(ii) aryl acrylates,
(iii) alkyl methacrylates,

(iv) aryl methacrylates,

(v) succinic anhydride,

(vi) glutaric anhydride,

(vii) 3- propriolactone,

(viii) cyclic alkyl anhydrides,

(vix) cyclic aryl anhydrides,

(x) amine reactive cyclic anhydrides selected from the group consisting of

(a) beta-sultones, and

(b) ethylene sulfate,

(xi) dialkyl itaconates,

(xii)itaconic acids,

in a ratio of from 1:1 to1:3, at room temperature in the range of about 0^0C to about 200^0C for a period of time in the range of about 5 minutes to about 120 minutes:

thereafter, adding solvent to the reaction mass and heating the mixture at less than 200^0C for up to 24 hours;

thereafter, adding one mole equivalent of tris(2-aminoethyl)amine per total ester or a slight excess in the reaction mass and heating at a temperature in the range of 4^0C to about 200^0C for a period of time ranging from about 1 hour to about 30 hours.

4. A monomer prepared by the process as claimed in claim 1.

5. A polymer prepared by the process as claimed in claim 2.

6. A polymer prepared by the process as claimed in claim 3.